

Publications Intellectually Led by this FWP

- 1) "Probing excitonic dark states in single-layer tungsten disulphide", Ziliang Ye, Ting Cao, Kevin O'Brien, Hanyu Zhu, Xiaobo Yin, YuanWang, Steven G. Louie & Xiang Zhang, *Nature*, vol. 513, p. 214-218, **2014**. DOI: :10.1038/nature13734.
- 2) "Probing Local Strain at MX₂-Metal Boundaries with Surface Plasmon Enhanced Raman Scattering", Yinghui Sun, Kai Liu, Xiaoping Hong, Michelle Chen, Jonghwan Kim, Sufei Shi, Junqiao Wu, Alex Zettl, Feng Wang, *Nano Letters* vol. 14(9), p. 5329–5334, **2014**. DOI: 10.1021/nl5023767.
- 3) "Ultrafast acousto-plasmonic control and sensing in complex nanostructures", Kevin O'Brien, N. D. Lanzillotti-Kimura, Junsuk Rho, Haim Suchowski, Xiaobo Yin, and Xiang Zhang, *Nature Communications*, vol. 5, p. 4042, **2014**. DOI: 10.1038/ncomms5042.
 - a. Acknowledgement: This work was supported by the US Department of Energy under Contract No.DE-AC02-05CH11231. J.R. acknowledges a fellowship from the Samsung Scholarship Foundation, Republic of Korea.
- 4) "Controlling Graphene Ultrafast Hot Carrier Response from Metal-like to Semiconductor-like by Electrostatic Gating", S-F Shi, T-T Tang, Bo Zeng, Long Ju, Qin Zhou, Alex Zettl, Feng Wang, *Nano Letters* vol. 14 (3), p. 1578-1582, **2014**. DOI: 10.1021/nl404826r.

Collaborative publications

- 1) "Ultrafast Charge Transfer in Atomically Thin MoS₂/WS₂ Heterostructures", Xiaoping Hong, Jonghwan Kim, Su-Fei Shi, Yu Zhang, Chenhao Jin, Yinghui Sun, Sefaattin Tongay, Junqiao Wu, Yanfeng Zhang, FengWang, *Nature Nanotechnology* vol. 9, p. 682–686, **2014**. DOI: 10.1038/nnano.2014.167
- 2) "Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides", H. Fang, C. Battaglia, C. Carraro, S. Nemsak, B. Ozdol, J. S. Kang, H. A. Bechtel, S. B. Desai, F. Kronast, A. A. Unal, G. Conti, C. Conlon, G. K. Palsson, M. C. Martin, A. M. Minor, C. S. Fadley, E. Yablonovitch, R. Maboudian, and A. Javey, *Proceedings of the National Academy of Sciences*, vol. 111, p. 6198–6202, **2014**. DOI: 10.1073/pnas.1405435111.